

Appln. No.: 10/772,079
Amdt. dated April 28, 2008

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Amendments to the Claims:

Please amend claims 1 and 17 and cancel claim 15 as shown in the following listing of claims. This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) A feedforward equalizer for equalizing a sequence of signal samples received from a remote transmitter, the feedforward equalizer being included in a receiver having a decoder, the feedforward equalizer comprising:

(a) a non-adaptive filter operable to receive the signal samples and to produce a filtered signal, ~~the non-adaptive filter being operable to produce a precursor in the filtered signal, the precursor being an indicator preceding a signal sample to facilitate timing recovery;~~

a noise cancellation stage operable to subtract from the filtered signal a noise signal received from a noise computing module of the receiver and to produce a noise-reduced filtered signal; and

(b) ~~a gain stage coupled to the non-adaptive filter, the gain stage allowing adjustment of~~ operable to receive the noise-reduced filtered signal and to adjust the gain of the feedforward equalizer by adjusting the amplitude of the noise-reduced filtered signal, the amplitude of the noise-reduced filtered signal being adjusted so as to fit in an operational range of the decoder.

2. (original) The feedforward equalizer of claim 1 wherein the feedforward equalizer does not enhance noise.

3. (previously presented) The feedforward equalizer of claim 1 wherein the receiver has a timing recovery module for setting a sampling phase and wherein the feedforward equalizer does not directly affect the sampling phase setting of the timing recovery module of the receiver.

4-6. (cancelled)

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7. (original) The feedforward equalizer of claim 1 wherein the non-adaptive filter substantially eliminates from the received signal samples intersymbol interference introduced by pulse shaping at the remote transmitter.

8-10. (Cancelled)

11. (original) The feedforward equalized of claim 1 wherein adjustment of the gain of the feedforward equalizer is programmable.

12-16. (cancelled)

17. (previously presented) A method for equalizing a sequence of input samples received at a receiver from a remote transmitter, the receiver having a decoder, the method comprising:

(a) filtering the input samples using a non-adaptive filter to produce a filtered signal, ~~said filtering including producing a precursor in the filtered signal, the precursor being an indicator preceding a signal sample to facilitate timing recovery;~~

(b) subtracting from the filtered signal a noise signal received from a noise computing module of the receiver to produce a noise-reduced filtered signal; and

(b)(c) adjusting the amplitude of the noise-reduced filtered signal so that the amplitude of the noise-reduced filtered signal fits in an operational range of the decoder.

18. (previously presented) The method of claim 17 wherein filtering the input samples and adjusting the amplitude of the filtered signal do not amplify noise.

19. (previously presented) The method of claim 17 wherein the receiver has a timing recovery module for setting a sampling phase and wherein operations (a) and ~~(b)~~(c) do not directly affect the sampling phase setting of the timing recovery module of the receiver.

20-22. (cancelled)

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23. (previously presented) The method of claim 17 wherein filtering the input samples includes substantially eliminating from the received signal samples intersymbol interference introduced by pulse shaping at the remote transmitter.

24-26. (cancelled)

27. (previously presented) The method of claim 17 wherein adjustment of the amplitude of the filtered signal is programmable.

28-59. (cancelled)